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3 of 5[View Images](#)

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(21) Int. Application Number: PCT/JP98/05886 (22) Int. Filing Date: 24 December 1998 (24.12.1998) (30) Priority Data 9/354537 Filed on 24 December 1997 JP (24.12.1997) (71) Applicant: ASAHI KASEI KOGYO KABUSHIKI KAISHA 2-6, Dojimahama 1-chome, Kita-ku, Osaka-shi, Osaka 530-8205 ; (JP). [JP/JP]. (<i>for all designated states</i> <i>except US</i>) (72) Inventors; and (75) Inventors/Applicants: OHNO, Takeshi Asahi Kasei No. 5, Fuji- ryo No. 505, 100, Kawanarijima, Fuji-shi, Shizuoka-ken 416-0939 ; (JP) [JP/ JP]. KOSHIO, Takehiro 955-90, Aza- Ishihara, Kamizawa, Kannamicho, Tagata- gun, Shizuoka-ken 419-0122 ; (JP) [JP/ JP]. ISHIMARU, Hiroshi Green-coop No. 6-309, 743, Mamedochō, Kohoku-ku, Yokohama-shi, Kanagawa-ken 222-0032 ; (JP) [JP/ JP]. (74) Agent: YOSHIOKA, Masashi Akasaka Habitation Building, 3rd floor, 3-5,		(81) Designated States: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZW ; ARIPO patent (GH, GM, KE, LS, MW, SD, SZ, UG, ZW); Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM); European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE); OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG) Published <i>With international search</i> <i>report.</i>

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(54) Title: NOVEL SEVEN-PASS TRANSMEMBRANE RECEPTOR PROTEIN

No Image Available.

(57) Abstract

A seven-pass transmembrane receptor protein originating in humans which has the amino acid sequence represented by SEQ ID NO:2 and a DNA encoding the same. Use of this protein and the DNA encoding the same makes it possible to screen substances for treating or preventing autoimmune diseases, etc., to diagnose diseases and to produce diagnostics. An expression vector of the above protein; transformed microorganisms or cells; the above protein produced thereby; a method for screening a ligand to the above protein or a substance inhibiting the binding of the ligand to the protein; and an antibody against the protein. A fragment of a seven-pass transmembrane receptor protein originating in mouse having the amino acid sequence represented by SEQ ID NO:4; and a DNA encoding the same. This protein fragment and the DNA encoding the same are useful in identifying and isolating a novel full-length mouse seven-pass transmembrane receptor protein and a DNA encoding the same.



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3 of 5

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